

# LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

## Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

### INLAND RIVERS AGGREGATE COMPANY

Pursuant to "The Land Reclamation Act," RSMo. 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of  
limestone in the state of Missouri. The extent of the

Proposed mining operation(s) will be on nine acres, more or less.

The locations of the operation(s) under this permit is/are as follows: Renewal

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Saline	24, 25	51N	19W	5	0	5	IRA #5	0628
Saline	34	53N	20W	4	0	4	Franklin Quarry	0627

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this 27th day of February 2004

  
DIRECTOR OF STAFF  
Land Reclamation Commission

Permit No. 0670  
Effective Date 02/27/2004  
Expiration Date 02/13/2005  
MO 780-1122 (6-95)

# RECEIVED

FEB 17 2004



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES**

MISSOURI LAND  
RECLAMATION COMMISSION

P.O. BOX 176  
JEFFERSON CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL <i>Island Rivers Aggregate</i>		2-11-04	
ADDRESS <i>8765 Highway 36 P.O. Box 348</i>	CITY <i>Hannibal</i>	STATE <i>Mo.</i>	ZIP CODE <i>63401</i>
CONTACT PERSON <i>LARRY J. BREWER</i>		TELEPHONE NUMBER <i>573-221-5958</i>	

**FEES: COMPLETE SECTION I OR SECTION II**

**SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:**

1. To compute the site fee complete the information below:

SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month that the site will be operated during the permit year	For sites operated less than six months per permit year pay \$150 For sites operated six months or more per permit year pay \$300
1. <i>Franklin - 4</i>	Jan <input checked="" type="checkbox"/> Feb <input checked="" type="checkbox"/> Mar <input checked="" type="checkbox"/> Apr <input checked="" type="checkbox"/> May <input checked="" type="checkbox"/> Jun <input checked="" type="checkbox"/> Jul <input checked="" type="checkbox"/> Aug <input checked="" type="checkbox"/> Sep <input checked="" type="checkbox"/> Oct <input checked="" type="checkbox"/> Nov <input checked="" type="checkbox"/> Dec <input checked="" type="checkbox"/>	\$ <i>150</i>
2. <i>I-05 5</i>	Jan <input checked="" type="checkbox"/> Feb <input checked="" type="checkbox"/> Mar <input checked="" type="checkbox"/> Apr <input checked="" type="checkbox"/> May <input checked="" type="checkbox"/> Jun <input checked="" type="checkbox"/> Jul <input checked="" type="checkbox"/> Aug <input checked="" type="checkbox"/> Sep <input checked="" type="checkbox"/> Oct <input checked="" type="checkbox"/> Nov <input checked="" type="checkbox"/> Dec <input checked="" type="checkbox"/>	\$ <i>150</i>
3.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
4.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
5.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
6.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
7.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
8.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
9.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
10.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
TOTAL SITE FEE		\$

2. Acreage Fee \$5 X *9* number of acres bonded ..... \$ *45.00*

3. Annual Permit Fee ..... \$ 500

4. Total Fee (Add totals from 1, 2 and 3) ..... \$ *845.00*

NOTE: If Total Fee exceeds \$2,500.00 then pay only ..... \$ 2,500

**SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:**

1. Annual Permit Fee ..... \$ 300

SIGNATURE OF APPLICANT <i>Larry J. Brewer</i>	TITLE <i>A.R. Mgr</i>	DATE <i>2-11-04</i>
Appeared before me this <i>11</i> day of <i>February</i> , 2004.		
to me personally known, who executed the above as their free acts and deeds.		

NOTARY PUBLIC EMBOSSEER SEAL	STATE OF <i>Missouri</i>	COUNTY (OR CITY OF ST. LOUIS) <i>Ralls</i>
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>11<sup>th</sup></i> DAY OF <i>February</i> YEAR <i>2004</i>	
	NOTARY PUBLIC SIGNATURE <i>Marsha Moss</i>	MY COMMISSION EXPIRES <i>10/2/07</i>
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>Marsha Moss</i>	

**Marsha Moss - Notary Public**  
Notary Seal For State Of  
**Missouri - Ralls County**  
**My Commission Expires 10/02/2007**

FOR DEPARTMENT USE ONLY APPROVED BY <i>Larry J. Brewer</i>	DATE APPROVED <i>02/20/04</i>	PERMIT NUMBER <i>0670</i>	EXPIRATION DATE <i>02/13/2005</i>
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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

**RECEIVED**  
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MISSOURI LAND  
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER <i>IRA 05</i>		PERMIT NUMBER <i>670</i>
COMPANY NAME <i>Inland Rivers Aggregate Company</i>		
COUNTY <i>Saline</i>	1/4 SECTION	SECTION <i>24, 25, 19</i>
TOWNSHIP <i>Sec 24, 25 51N</i> <i>Sec 19 52N</i>	RANGE <i>19W</i> <i>18W</i>	ACRES <i>196</i>
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)		
MINERAL COMMODITY <i>Limestone</i>		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) <i>See List</i>		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT <i>4/24/97</i>
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) <i>Same as landowners</i>		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.

### EXHIBIT "A"

A tract of land in the Southwest corner of the Southwest quarter of Section No. 19, Township 51, Range 18, more particularly described as follows: Beginning at a point on the Range line between Ranges 18 and 19, corner to Brown and Hays, and running along said Range line to the South West corner of Section No. 19 aforesaid, thence East along Section line between Sections 19 and 30, Township and Range aforesaid, to the foot of the bluff, thence North along with the foot of the bluff to the line between Sam Hays and Brown, thence West with said line to the place of beginning, containing 10.5 acres, more or less.

Also seven (7) acres off the North end of the East side of the Northeast quarter of the Northeast quarter of Sec. 25, Township 51, Range 19; Also One (1) acre, more or less, described as follows: Beginning at the Northwest corner of the Northwest quarter of the Northwest quarter of Sec. 30, Township 51, Range 18, and running East to the foot of the rock bluff, thence Southwest along the foot of said bluff to the West line of Section 30, thence North along said West line to the point of beginning: The three above described tracts being the same land conveyed to William R. Burnett by deed from William H. Oberdahlhoff dated February 25, 1904, and recorded in book 112, page 577, in the Office of the Recorder of Deeds for Saline County, Missouri.

Also Eight (8) acres off of the South end of the East side of the Northeast quarter of the Northeast quarter of Sec. 25, Township 51, Range 19, and

Also Fifteen (15) acres, more or less, off of the Northwest quarter of the Northwest quarter of Fractional Section 30, it being that part of said Section lying West of Fish Creek in Township 51, of Range 18, said last two described tracts being the same land conveyed to William R. Burnett by Warranty Deed from Sallie E. Lee and Mary H. Lee, dated December 3rd, 1903, and recorded in book 118; page 14, said Recorder's Office.

Also a tract of land in Fractional Section 30, Township 51, Range 18, bounded as follows: Beginning at the quarter section corner to Sections No. 19 and No. 30, Township 51, Range 18, at which point a stone has been planted, thence West on the line between Sections 19 and 30, 28.45 chains to the middle of Fish Creek, thence with the center of Fish Creek South 51 deg. East 1.50 chains, thence South 19 deg. West 16.80 chains, thence South 60 3/4 deg. West 6 chains, thence South 45 minutes West 10.90 chains, thence South 56 deg. 52 min. West 3.67 chains to a line between Ranges 18 and 19, thence South on Range line 4.80 chains to a stone set just North of the fence between this tract and lands cultivated by William R. Burnett, from which stone an elm 12 inches in diameter bears North 42 deg. East 49 links, thence South 89 deg. East, 10.80 chains with fence line to middle of slough, set a stone from which a cotton wood 24 inches in diameter bears North 77 deg. West 144 links, thence North 46 deg. 49 min. East 13.43 chains to a stone from which a cottonwood stump bears North 60 3/4 deg. East 33 links, and a cottonwood stump bears South 64 deg. West 52 links, thence North 61 deg. 29 min. East 23.60 chains to the quarter section line, thence North on quarter section line 16.95 chains to the place of beginning, except a strip 18 feet wide off the East side thereof, and subject to the right of way of 15 feet wide granted to Alphonso Bowler on the South line of this tract along the William Burnett fence, containing 96.13 acres.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

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MISSOURI LAND  
RECLAMATION COMMISSION

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: 5/5/97 to 5/15/2027

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

*This plan covers 196 acres  
pasture land some wooded areas  
Area is mostly flat with some rolling hills*

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

**A. TOPSOIL**

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

6 / 6 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

*Dozers and scrapers will be used to remove and  
stockpile topsoil*

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

*Dozers & scrapers will place topsoil and grade  
slopes. Topsoil stockpiles will be seeded to control  
erosion.*

**B. SPOIL**

MISSOURI LAND

RECLAMATION COMMISSION  
DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Spoil will be removed + placed with dozers and scrapers. Spoil will be placed west of the east property line approx. feet in the rav that runs north and south. See map

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None

**PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See map

YES NO

☐
☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐
☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐
☒

Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

MISSOURI LAND  
RECLAMATION COMMISSION

VEGETATION MIX #1

PURPOSE OR LAND USE

Pasture / IND.

B. SEEDING OR PLANTING TIME

As needed

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After the topsoil replacement, the seed mix will be broadcast and harrowed + mulched with 2 tons per acre.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	24		
Red clover	3		
Lime	1500 lbs ENM		
N	60 lbs / ac		
P	90 lbs / ac		
K	90 lbs / ac		

VEGETATION MIX #2

PURPOSE OR LAND USE

Wildlife / Industrial

B. SEEDING OR PLANTING TIME

As needed

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Same

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Big Bluestem	7 combination		
Indian Grass			
Switch Grass			

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING**

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Spoil areas will be graded to slopes traversable by farm machinery.

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**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Grading will be done as the pit advances and as overburden is placed.

Final grading will be completed within one year of permit expiration.

**REPLACEMENT OF TOPSOIL**

Topsoil will be replaced to a uniform depth of 6-12 inches, and disced to reduce compaction. Topsoil will be replaced within one year of permit expiration.

**REVEGETATION**

Topsoil will be seeded during the first optimum period following topsoil replacement and within 24 months after expiration or renewal of the permit under which surface mining disturbance occurred.

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

6" topsoil + 6" subsoil

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	146
Development (residential, industrial, and recreational)	50
Water impoundments (for wildlife, agricultural, or development)	



By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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MISSOURI LAND  
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT <i>Arny Feltner</i>		TITLE <i>President</i>	DATE <i>5/2/97</i>
NOTARY PUBLIC EMBOSSEER SEAL	STATE <i>Missouri</i>	COUNTY (OR CITY OF ST. LOUIS) <i>COLE</i>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>1<sup>st</sup></i> DAY OF <i>May</i> 19 <i>97</i>		USE RUBBER STAMP IN CLEAR AREA BELOW <b>DIANA K. LUECKENOTTE</b> <b>NOTARY PUBLIC, STATE OF MISSOURI</b> <b>COLE COUNTY</b>  <b>MY COMMISSION EXPIRES MARCH 17, 1998</b>
	NOTARY PUBLIC SIGNATURE <i>Diana K. Lueckenotte</i>	MY COMMISSION EXPIRES <i>3-17-98</i>	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <b>DIANA K. LUECKENOTTE</b>		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Michael Zehli</i>		DATE APPROVED <i>5/22/97</i>	PERMIT NUMBER <i>670</i>



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

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JAN 17 1995

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER <b>Franklin Quarry</b>		PERMIT NUMBER <b>670</b>
COMPANY NAME <b>Inland Rivers Aggregate Co.</b>		
COUNTY <b>Saline</b>	1/4 SECTION <b>SE</b>	SECTION <b>34</b>
TOWNSHIP <b>53N</b>	RANGE <b>20 W.</b>	ACRES <b>75</b>
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) <b>None</b>		
MINERAL COMMODITY <b>Limestone</b>		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) <b>Donnie &amp; Jamie Nichols</b>		
ADDRESS <b>RT. 1</b>		
CITY <b>Miami</b>	STATE <b>MO.</b>	ZIP CODE <b>65344</b>
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT <b>Nov. 1994</b>
<input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

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FEB - 6 1995

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) <b>same as landowner</b>		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.

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RECLAMATION COMMISSION

SITE DESCRIPTION



United States  
Department of  
Agriculture

Natural Resources  
Conservation  
Service

704 N. Miami  
Marshall, MO 65340  
(816) 886-5773

December 5, 1994

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MISSOURI LAND  
RECLAMATION COMMISSION

Mr. Gary W. Dittmer, President  
Inland Rivers Aggregate Company  
P.O. Box 1555  
Hannibal, MO 63401

Dear Mr. Dittmer:

As you requested, the following is a general description of the area that you and I inspected on November 22, 1994 for which your company has obtained an easement for the purpose of quarrying rock for commercial sale.

The area is approximately 75 acres (see enclosed map) adjacent to and adjoining the Missouri River in section 34, Township 53N, Range 20W, Saline County, Missouri. It is comprised of 5 different soil types and an area that has already had soil removed in order to quarry the underlying rock. The area contains both upland and bottomland on which the upland has generally a Northeasterly Aspect toward the river and the bottomland has a Southeasterly Aspect also toward the river. Slopes range from 0% to 14%.

Soil types present and their descriptions are as follows:

26 Haynie Waldron complex, 0 to 2% slopes, in areas that have an intricate pattern of swales and low natural levees. Surface layer is easily tilled through a wide range of moisture content of the Haynie soil, and Waldron soil can be cloddy if tilled when wet. Erosion hazard is slight. Waldron soils have a seasonal high water table at 1 to 3 feet. Permeability of the Haynie soil is moderate, and slow in the Waldron soil. Depth to bedrock is greater than 60 inches with the A horizon being from 0 to 7 inches and the B horizon being 0 to 7 inches. (Haynie is T=5, K=.37, IA0170 and Waldron is T=5, K=.32, MO0079).

33C2 Knox silt loam, 3 to 9% slopes, eroded, on upland ridgetops adjacent to Missouri River flood plain. Surface layer is easily tilled through a wide range of moisture content. Erosion hazard is moderate. Permeability is moderate. Depth to bedrock is greater than 60 inches with the A horizon being 0 to 13 inches and the B horizon being 0 to 13 inches. (T=5, K=.32, MO0083).

33D2 Knox silt loam, 9 to 14% slopes, eroded, on upland sideslopes. Surface layer is easily tilled through a wide range of moisture content. Erosion hazard is moderate. Permeability is moderate. Depth to bedrock is greater than 60 inches with the A horizon being 0 to 13 inches and the B horizon being 0 to 13 inches. (T=5, K=.32, MO0083)

63 Nodaway silt loam, 0 to 2% slopes, on alluvial fans along streams of the Missouri River flood plain. Surface layer is easily tilled through a wide range of moisture content. Erosion hazard is slight. Seasonal high water table at 3 to 5 feet. Permeability is moderate. Depth to bedrock is greater than 60 inches with the A horizon being 0 to 7 inches and the B horizon being 0 to 7 inches. (T=5, K=.37, IA0141)

86 Waldron silty clay, 0 to 2% slopes, on the Missouri River flood plain. Surface layer can be cloddy if tilled when wet. Erosion hazard is slight. Seasonal high water table at 1 to 3 feet. Permeability is slow. Depth to bedrock is greater than 60 inches with the A horizon being 0 to 7 inches and the B horizon being 0 to 7 inches. (T=5, K=.32, MO0079).

100 Pitts and Quarries

The soils listed above are present in these approximate amounts: 26 Haynie-Waldron complex - 19 acres, 33C2 Knox silt loam - 21 acres, 33D2 Knox silt loam - 6 acres, 63 Nodaway silt loam - 6 acres, 86 Waldron silty clay - 10 acres and 100 Pitts and Quarries - 13 acres.

I hope this description is helpful.

Sincerely,



Steven H. Wooden  
District Conservationist

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enclosure:

USDA/NRCS/SHW

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

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JAN 17 1995

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: 6-30-2016

MISSOURI LAND  
RECLAMATION COMMISSION

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Description enclosed

**OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.**

**A. TOPSOIL**

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

8

INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Scrapers and dozers will be used to remove topsoil.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Scrapers and dozers will be used to stockpile topsoil near the spoil area (see map #2). The stockpiles will be seeded to protect from erosion.

**B. SPOIL****DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL**

Overburden shall be placed along the north and east property lines on the existing dirt road as shown on the aerial photo.

Once the berm and roadway are constructed the overburden will be placed in the mined out area.

**DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)**

None

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**PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)****DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS**

The first area to be effected will be the North and Northwest side of the existing pit, then advancing in the same direction.

YES NO

☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☒☒

Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

213  
Gary B. H.  
MD

JAN 17 1995

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.		
A. REVEGETATION (Attach additional sheets, if needed)		
REVEGETATION MIX #1 #1	PURPOSE OR LAND USE Pasture	B. SEEDING OR PLANTING TIME AS Needed

MISSOURI RECLAMATION COMMISSION

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After the topsoil replacement, the seed mix will be broadcast and harrowed.  
Reseeding will be done as needed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue Red Clover	24 3		

VEGETATION MIX #2 #2	PURPOSE OR LAND USE Wildlife	B. SEEDING OR PLANTING TIME AS Needed
-------------------------	---------------------------------	--

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After the topsoil replacement, the seed mix will be broadcast and harrowed.  
Reseeding will be done as needed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Big Bluestem Indian Grass Switch Grass	7 combination		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.



**B. GRADING****DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES**

Spoil areas will be graded to slopes traversable by farm machinery.  
Excluding spoil areas in the pit that will be covered with water.

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RECLAMATION COMMISSION**RECEIVED**

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MISSOURI LAND  
RECLAMATION COMMISSION**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Grading will be done as the pit advances and as overburden is placed in the birm and roadway area.  
Final grading will be completed within one year of permit expiration.

**REPLACEMENT OF TOPSOIL**

Topsoil will be replaced to a uniform depth of 12 inches, and disced to reduce compaction.  
Topsoil will be replaced within one year of permit expiration.

**REVEGETATION**

Topsoil will be seeded during the first optimum seeding period following topsoil replacement.

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

A Horizon (8 inches) + B Horizon (4 inches) = 12 inches

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

23

Agricultural (pasture, cropland, and horticultural)

25

Development (residential, industrial, and recreational)

Water impoundments (for wildlife, agricultural, or development)

27

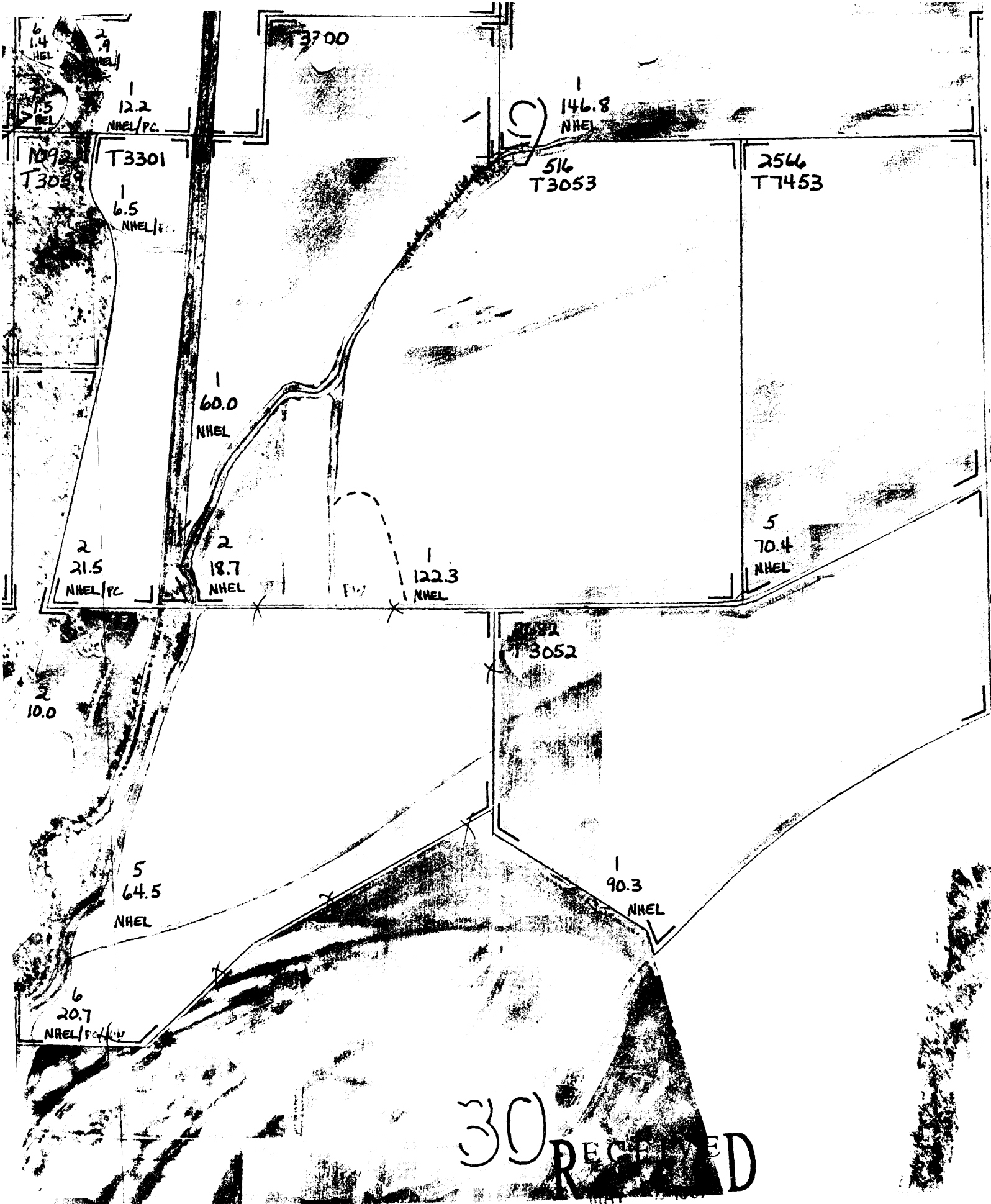
4 included  
121395  
MD

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mihe Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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SIGNATURE OF APPLICANT <i>Steve Pittman</i>		TITLE President	DATE 1-12-95
NOTARY PUBLIC EMBOSSEER SEAL	STATE Missouri	COUNTY (OR CITY OF ST. LOUIS) MARION	
	SUBSCRIBED AND SWORN BEFORE ME, THIS 12th DAY OF January 1995		USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE <i>Cheryl Chapman</i>	MY COMMISSION EXPIRES	CHERYL CHAPMAN NOTARY PUBLIC STATE OF MISSOURI MARION COUNTY MY COMMISSION EXP. OCT. 28, 1995
NOTARY PUBLIC NAME (TYPED OR PRINTED) CHERYL CHAPMAN			
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Brian D. Hicks</i>		DATE APPROVED 2-10-95	PERMIT NUMBER 670



MAP: 58 SECTION: 30

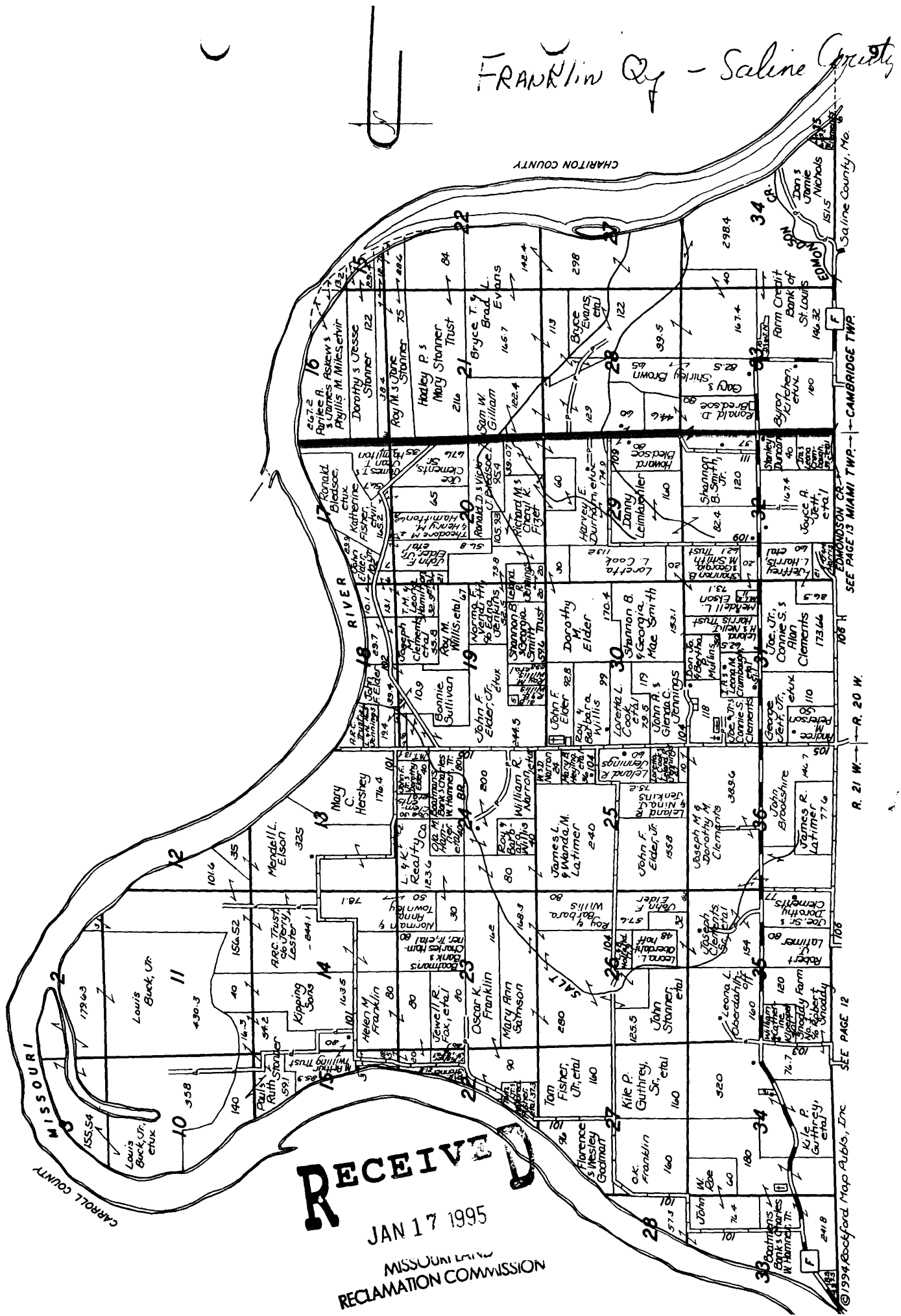
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NOT TO SCALE



T. 53 N.-R. 21-20 W.

NORTH PART MIAMI NORTH CAMBRIDGE



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FRANKLIN & - Saline County

SEE PAGE 12  
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WEST CENTRAL  
PART

CAMBRIDGE

EAST CENTRAL  
PART

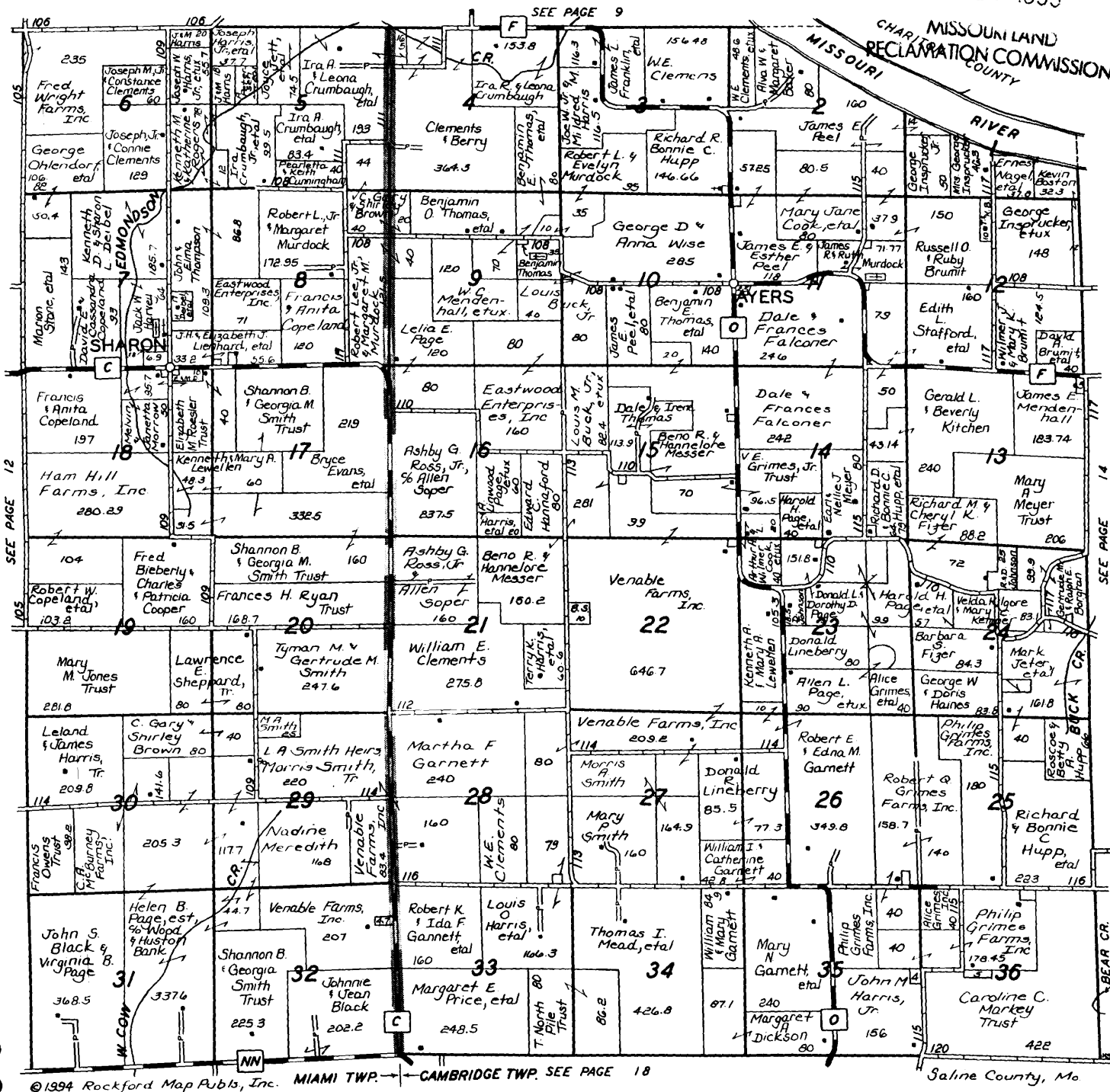
MIAMI

T. 52 N.-R. 20 W.

13

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SCALE 1:24 000

1 MILE

7000 FEET

6000

5000

4000

3000

2000

1000

● Nearest residence  
(distance indicated)

✖✖ Property boundary  
lines

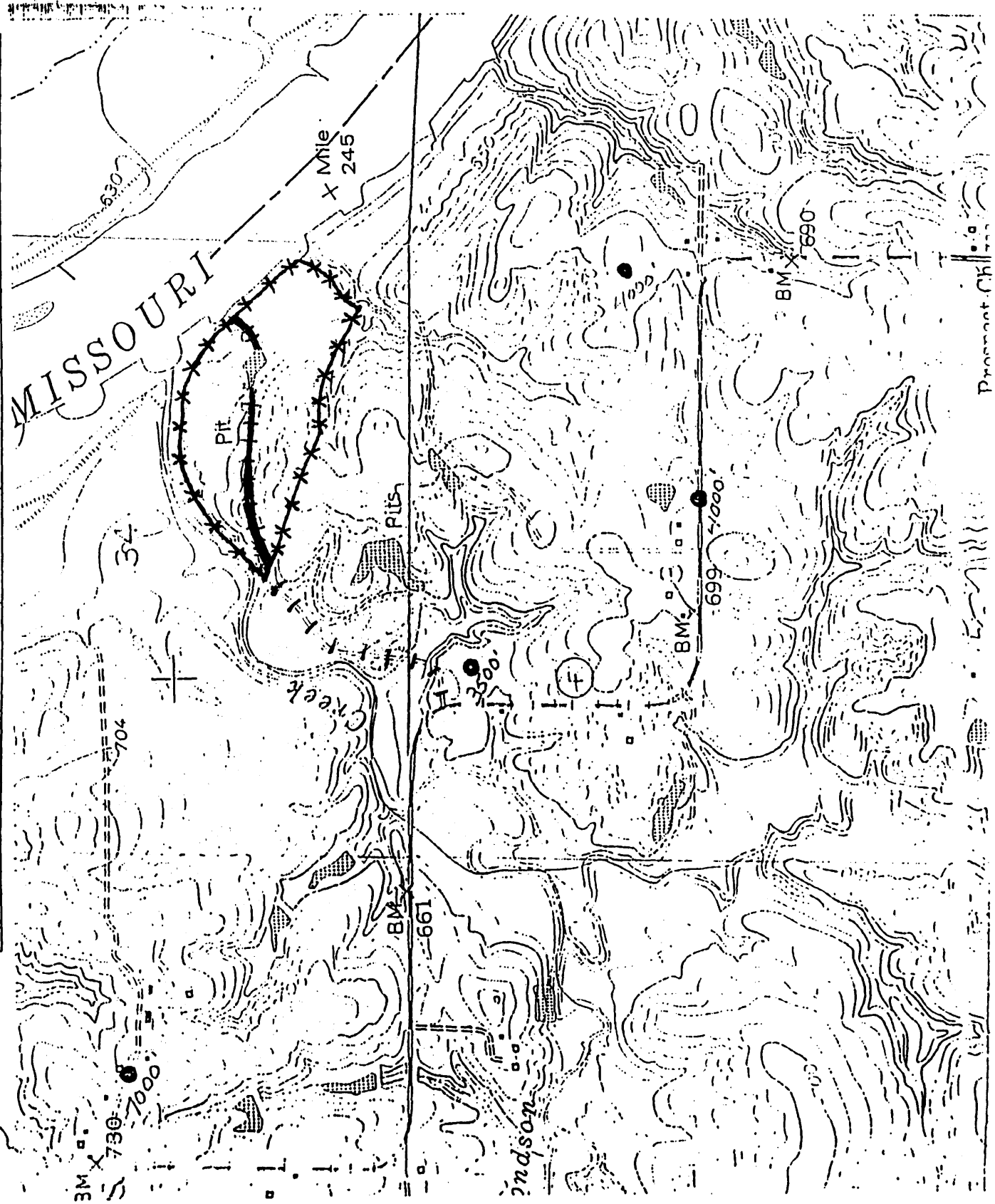
++ Haul Road, surface  
with crushed stone

59

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# RECEIPT

FEB - 6 1995

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Scale 1" = 660'

Landowner Boundary - - - -

Permit Boundary

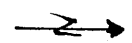
Terraces

Landowner: Donie Nichols

Prepared By: Gary Dittmer  
Inland Rivers Aggregate Co.  
Saline County  
Franklin Quarry #1  
SE 1/4 SEC. 34, T. 53N., R20W.  
Date: 1-12-95

Franklin Quarry #1  
Permit Area  
7.5 Ac.

Landowner Ac.  
151 Ac.



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\*\*\*\*\*  
Topsail  
Stockpile Area

1 inch = 660 feet



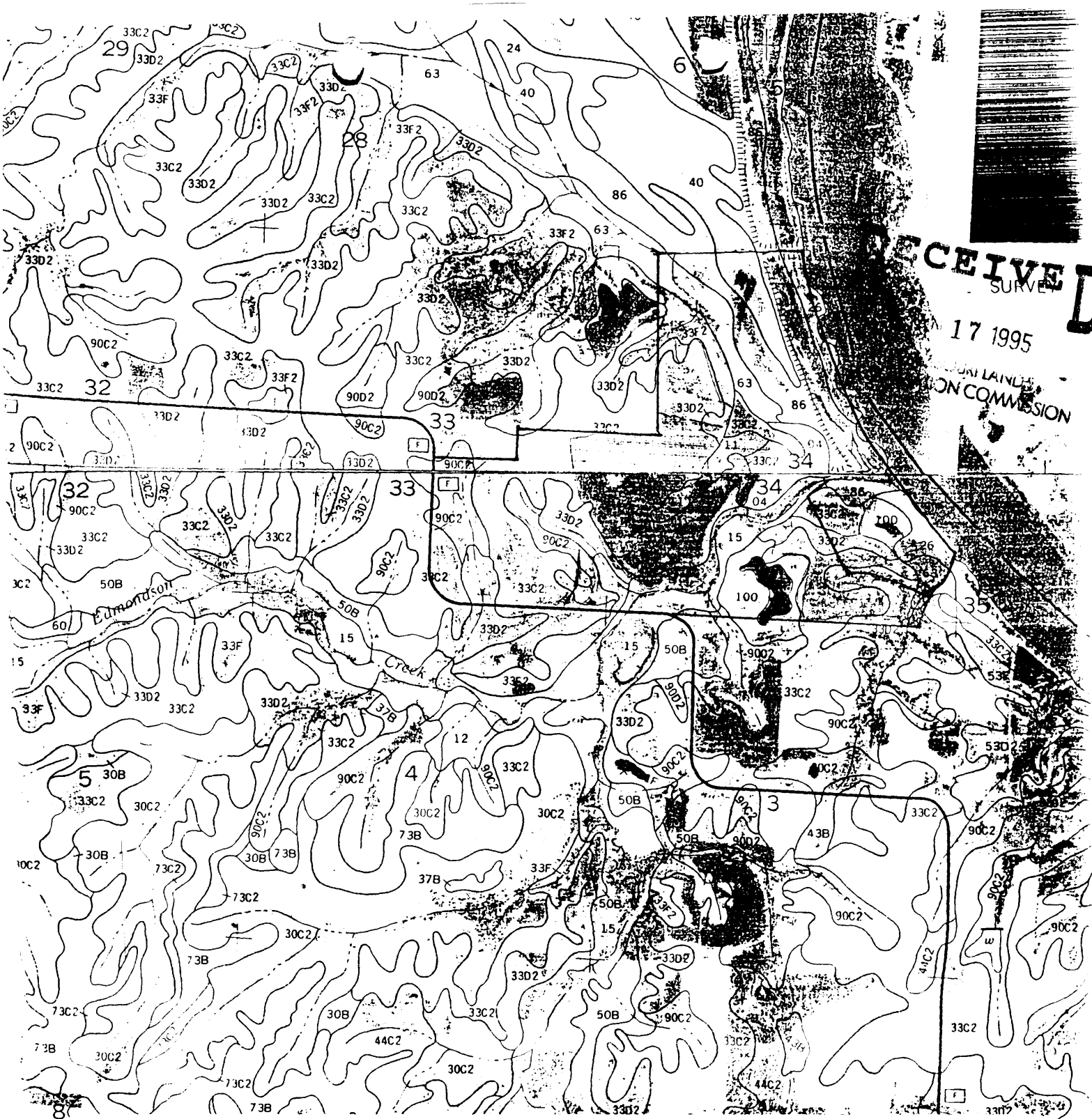


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++++  
Spoil Area  
1 inch = 660 feet



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17 1995  
LAND  
COMMISSION

SCS-CPA-015  
12-85

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

### SOIL MAP

Owner Nichols and Nichols Operator \_\_\_\_\_

County Saline State Missouri

Soil survey sheet(s) or code nos. 3, 6 Approximate scale 1:24000

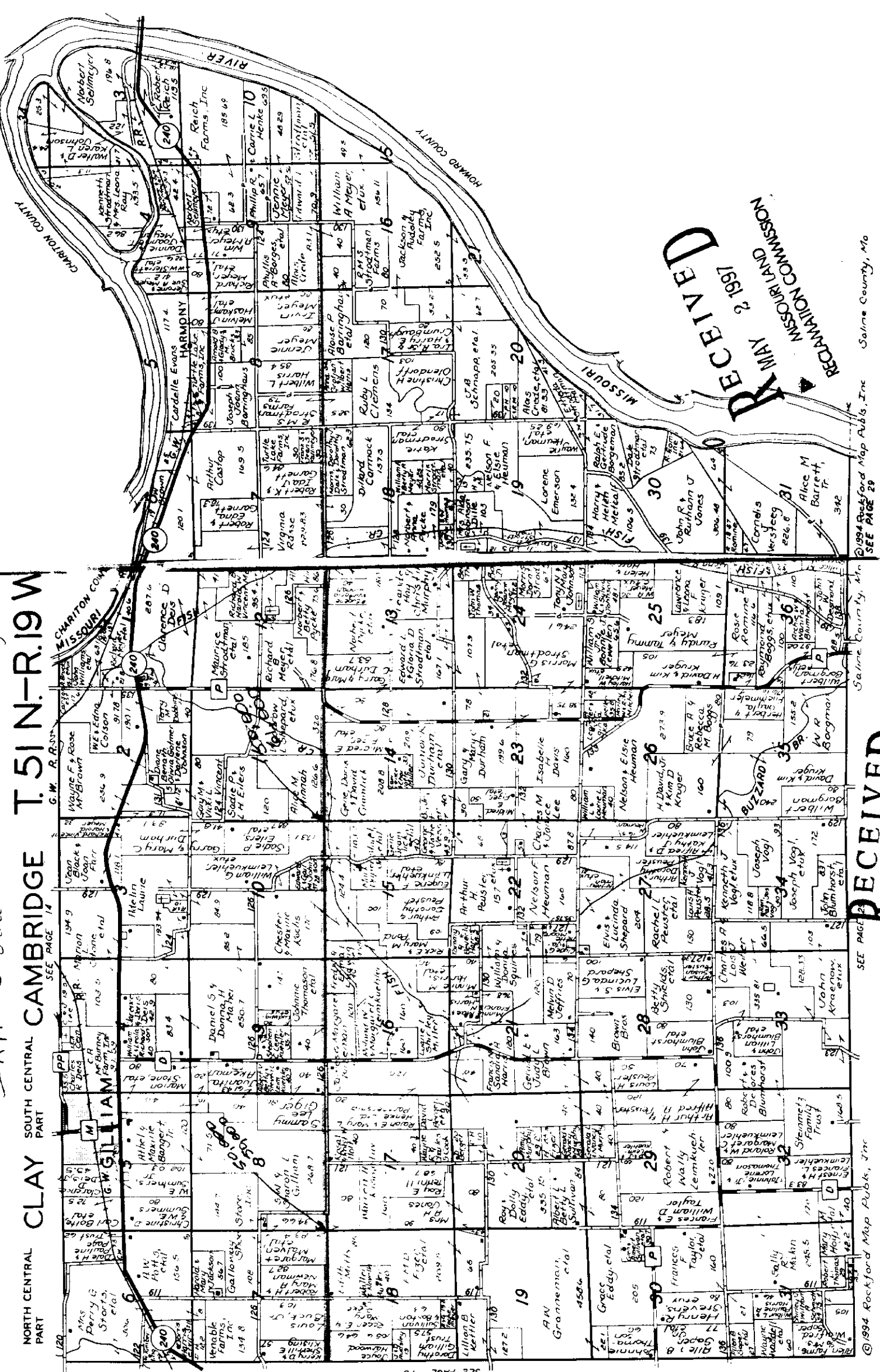
Prepared by U. S. Department of Agriculture, Soil Conservation Service cooperating  
with Saline Soil and Water Conservation District

7925 S34-T53N-R20W

THEAST CLAY SOUTHEAST CAMBRIDGE T.51-52N.-R.18W.

TRA #5 site Saline County T.51N.-R.19W

52 N  
51 N



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